



►► Hydraulic pile breaker



Working Principle

-High pile breaking efficiency-fast speed-saving labor

The hydraulic pile breaker provides pressure to multiple oil cylinders of the pile cutter through the power source, and the oil cylinder directly drives the drill rod and squeezes the pile body at the same time to cut off the pile head. During the construction process of the pile breaker, the operation is simple, the efficiency is high, the noise is low, and the cost is low. It is suitable for the construction of pile groups. The pile breaker adopts a highly modular combination. The modules are connected by pins. The number of different modules can be combined to cut off pile heads with a certain diameter.

Hydraulic pile breaker cutting: such as cast-in-place piles, prefabricated piles, etc.; from the shape of the pile head, it can be divided into circular pile breakers and square pile breakers. Pile breakers are widely used in high-speed railway bridges and industrial and civil construction pile foundation projects. Generally, circular pile cutters are suitable for pile diameters of 250mm and 2500mm; square pile cutters are suitable for pile side lengths of 250-650mm. requirements for large-scale foundation construction.



Hydraulic pile breaker◀◀

Main product configuration

Modules Number(PC)	4	8	9	10	11	12	13	14	15	16
Pipe diameter(mm)	600	870	1030	1200	1360	1535	1700	1865	2025	2200
Pile diameter range(KG)	1600	2624	2952	3280	3608	3936	4264	4592	4920	5248
Use excavator tonnage(T)	20T-30T				30T-40T				Hydraulic system/pumping station	
Drill rod Max. pressure	300KN	Drill rod diameter				110mm	Supporting construction machinery tonnage		≥ 20t	

Features



Module

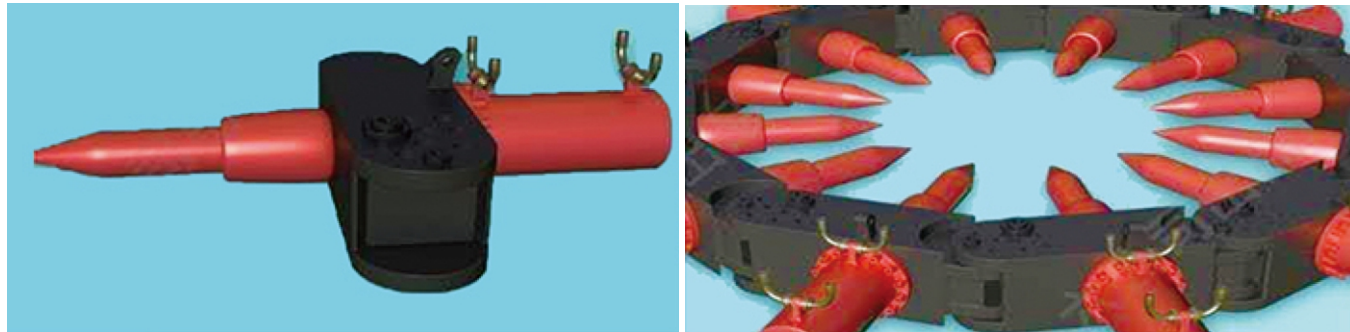
Links can add and reduce modules according to the size of the pile, which is convenient and quick.

Top

The tapered tip design avoids problems such as sticking, deflection, and brittleness of the steel brazing, which can accumulate in the guide flange.



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Drill rod

The steel rod that rotates at any time can effectively prevent the internal vibration of the high-pressure cylinder, prevent the connection from breaking, and has the effect of aerodynamic shock resistance.

Custom Made

4 - 18 modules can be customized according to the size of the pile head



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拆装方便

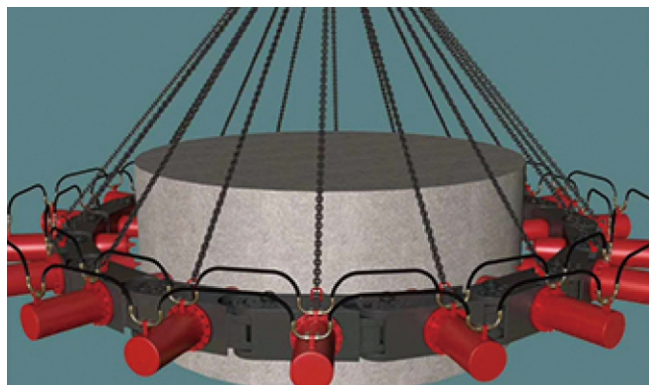


模块式拼接



自主生产配件

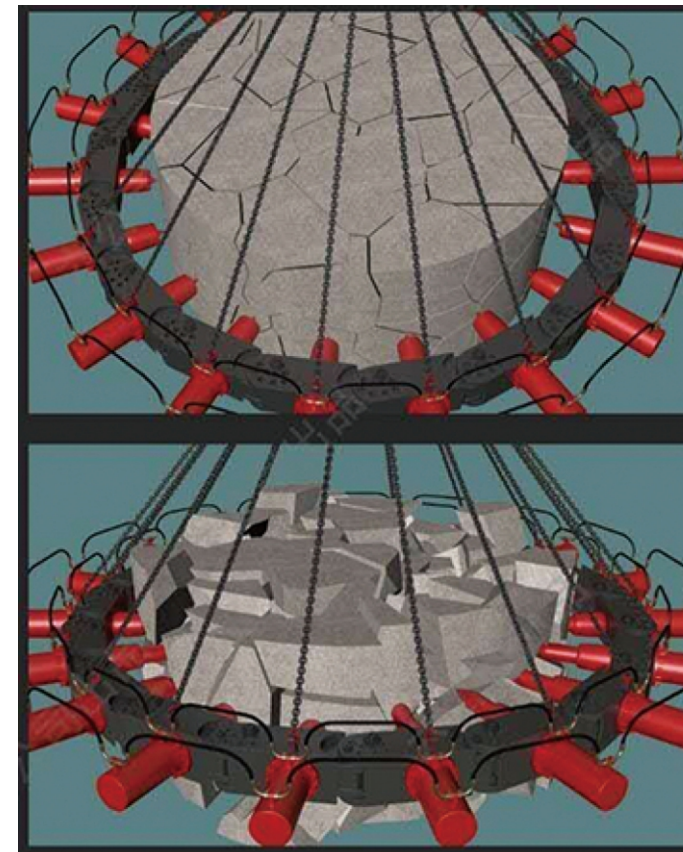
Operation process



1. Unscrew the oil filler cap, put the hydraulic oil (ISOVG32. 46, 68 or equivalent grade hydraulic oil), and observe the oil level in the oil level gauge. The oil level can be submerged to the top scale line of the oil level gauge (if the bottom scale of the oil level gauge is found in daily use) line, it means that the oil in the fuel tank is insufficient, please refuel before using it, otherwise it will easily cause system instability and pump damage.) If the oil is damaged, the warranty is not valid.



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2. Unscrew the fixing screws on the junction box on the side of the motor, remove the cover, and connect according to the wiring diagram shown on the motor nameplate, and ensure that the input voltage does not exceed the maximum allowable voltage of the motor.

3. Connect each hydraulic pipeline and electrical control circuit.

4. Start the motor, turn it off after about 1 second, and observe whether the rotation direction of the motor is consistent with the rotation direction marked by the pump. The motor is normally clockwise. If it is not consistent, please switch any 2-phase wire of the 3-phase wire of the motor, and the motor is not clockwise. Please do not use it for a long time to cause the oil pump to burn out, which is not guaranteed. (If the motor does not turn clockwise, the hydraulic station will not have pressure and cannot be used normally).

5. Start the motor again. The system is ready to use (when using it for the first time, please let the system run for a period of time with no load to facilitate the removal of air in the pipeline).



1. During the pile breaking process, it is forbidden to forcefully lift and pull the drill rod when it is not fully retracted into the cylinder. (The picture above is the wrong operation method, it is easy to break the drill rod and guide flange)



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2. It is forbidden to use the pile breaker as a lifting plane to lift concrete blocks (the above picture is a serious wrong operation method, the pile breaker is easy to be damaged)

Operation method of high-grade concrete piles to prevent broken steel bars

Convert high-grade concrete into similar low-grade (or loose) concrete piles!

Cut the high-grade concrete piles with small cracks all over the body. When the pile breaker cuts from top to bottom, observe carefully. When a drill rod cuts out the cracks in the concrete, stop immediately! Retract all the drill rods, and then move the pile breaker to the next section as a whole, and turn the pile breaker at an angle, and the method for going down is the same as above! Remember, do not cut the entire section. When the whole column is full of small cracks, start over. Cut down so you don't break the rebar!

Maintenance

Generally speaking, after the correct installation and debugging of the hydraulic system, it can work for a long time without any special maintenance. The basic principle of good maintenance is to frequently check the quality and state of the transmission medium and the cleanliness of the oil circuit. reliability of the hydraulic system.

The following routine maintenance measures are recommended

1. External cleaning, once a month, in this way, it is easier to find leaks and hidden troubles. 2. Regularly check the oil filter and clean or replace it if it is found to be dirty.

3. Refueling, when the oil level is lower than the minimum scale line of the oil level gauge, it means that the oil quantity is insufficient. It is necessary to add hydraulic oil to the oil tank. The newly added oil must be the same as the last time. Note: Hydraulic oils of different manufacturers cannot be mixed, and hydraulic oils of different specifications between the same manufacturer cannot be mixed

Please avoid mixing with water when refueling.

4. If conditions permit, filter hydraulic oil at least once a month.

5. Change the oil every 3,000 hours or so (depending on the working environment, the oil change interval can be extended in a good environment, and the oil change interval can be shortened in a bad environment), and it needs to be carefully cleaned when replacing oil tank, flush the entire oil circuit if necessary.

6. Keep the oil temperature at 70.Below, the optimal operating temperature is 35~55°Under special conditions, pay attention to heating and cooling.



Engineering case ◀◀





►► Engineering case



Engineering case ◀◀

